

What is claimed is:

1. A method for imaging a printing form via at least one first imaging module and one second imaging module for producing printing dots on the printing form, in connection with which both imaging modules, for the imaging in a transition region, cover identical locations of the printing form, comprising the steps of:  
producing in the transition region a plurality of at least partially not-simply connected first printing dots using the first imaging module; and  
producing in the transition region complementary, not-simply connected second printing dots using the second imaging module.
2. The method as recited in Claim 1, wherein at least one simply connected first region of printing form is assigned to the first imaging module and a second simply connected region of the printing form is assigned to the second imaging module, the first printing dots being produced in the first region only by the first imaging module and the second printing dots being produced in the second region only by the second imaging module.
3. The method as recited in Claim 2, wherein the first and second imaging modules each have  $n$  light sources, the light sources producing imaging spots on the printing form having a spacing  $l$  of neighboring imaging spots,  $l$  being a multiple of a spacing  $p$  of two neighboring printing dots of the first or second printing dots.
4. The method as recited in Claim 3, wherein the printing form is imaged by each of the first and second imaging module using an interleaf method at least in the transition region.
5. The method as recited in Claim 4, wherein the interleaf method has a step size  $t$  equal to the number  $n$  of the light sources in each of the first and second imaging modules, the step size  $t$  and the spacing  $l$  of neighboring imaging spots, measured in units of the spacing  $p$  of neighboring printing dots, being relatively prime.

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6. A device for imaging a printing form comprising:
- a first imaging module for guiding first imaging spots of at least one first light source over a transition region of the printing form, the first imaging spots of the at least one first light source producing a first set of printing dots in the transition region constituting a not-simply connected set; and
  - a second imaging module for guiding second imaging spots of the at least one first light source or at least one second light source over the transition region of the printing form, the second imaging spots producing a complementary, not-simply connected second set of printing dots in the transition region;
  - the first and second imaging modules being movable relative to the printing form.
7. The device as recited in Claim 6, wherein each of the first and second imaging modules has  $n$  light sources lying on one line at a distance  $l$  between neighboring light sources.
8. A printing form imaging unit comprising at least one device for imaging a printing form as recited in Claim 6.
9. A printing unit comprising at least one device for imaging a printing form as recited in Claim 6.
10. A printing machine comprising at least one printing unit as recited in Claim 9.

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